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(51) Intl. Cl.: **C12P 17/02 A61K 31/12 A61K 31/16 A61K 31/335 A61K 35/78 A61K 35/78 C07H 13/00 C07H 15/20**

(22) Application date: **20.11.95**

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publication: **13.08.96**

(84) Designated contracting
states:

(71) Applicant: **mitsui petrochem ind ltd**

(72) Inventor: **yukimune takahito
hara yasuihiro**

(74) Representative:

(54) PRODUCTION OF TAXANE TYPE DITERPENE

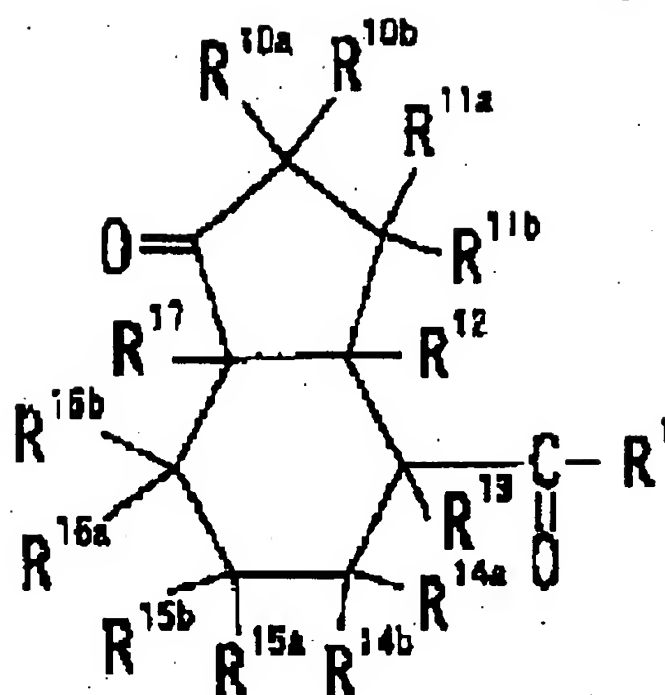
(57) Abstract:

PURPOSE: To efficiently obtain the subject compound useful as a therapeutic agent, etc., for ovarian, mammary, lung cancers, etc., by culturing a cell or a tissue of a plant capable of producing a taxane type diterpene in a culture medium containing coronatines, a microorganism capable of producing the same, its culture solution, a culture extract, etc.

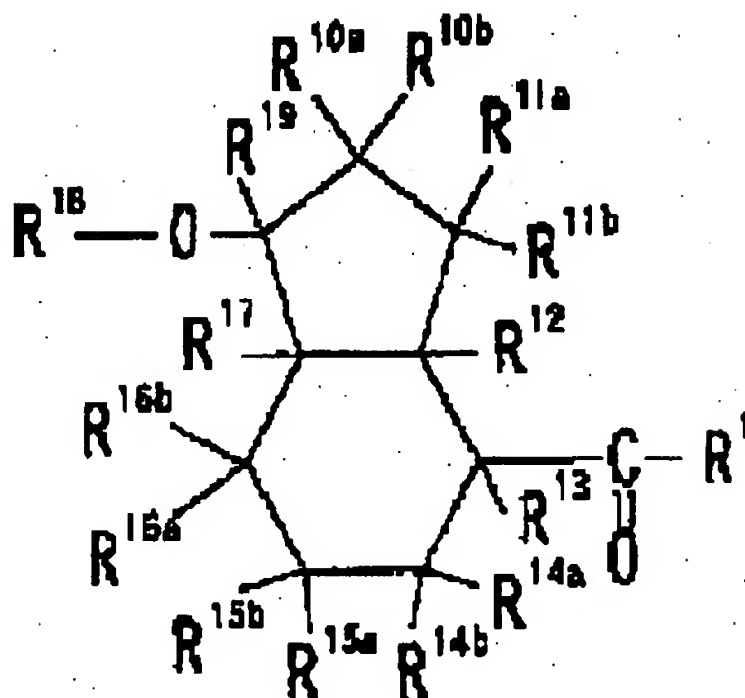
CONSTITUTION: A cultured cell or a tissual cell of a plant (e.g. *Taxus beccata* Linn) capable of producing a taxane type diterpene (e.g. taxol) or both are cultured in a culture medium containing one or more of coronatines represented by formula I [R1 is OH, OR2 (R2 is a 1-6C alkyl, etc.), OM1 (M1 is an alkali metal, an alkaline earth metal or NH4), NR3aR3b (R3a and R3b are each H, a 1-6C acyl, a 1-6C alkyl, etc.), etc.; R10a, R10b, R11a, R11b, R12, R13, R14a, R14b, R15a, R15b, R16a, R16b and R17 are each H, OH, a 1-6C alkyl or a 1-6C alkoxy] or formula II (R18 is H, a 1-6C alkyl or a carbohydrate; R19 is

same species as that of R17), etc., a microorganism capable of producing the same, a culture solution of the microorganisms, a culture extract, etc., thereof to recover a product from the cultured product and/or culture medium to efficiently afford the objective taxane type diterpene.

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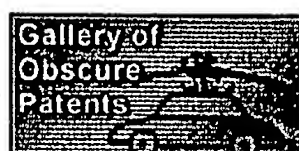
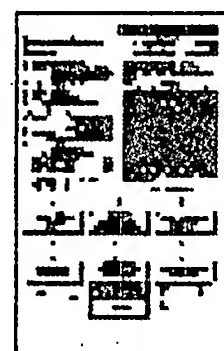
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View: [INPADOC](#) | Jump to: [Top](#) Go to: [Derwent...](#)☒ [Email this to a friend](#)Title: **JP8205882A2: PRODUCTION OF TAXANE TYPE DITERPENE**Country: **JP Japan**Kind: **A**Inventor: **YUKIMUNE TAKAHITO;
HARA YASUHIRO;**Assignee: **MITSUI PETROCHEM IND LTD**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **Aug. 13, 1996 / Nov. 20, 1995**Application Number: **JP1995000301654**IPC Code: **C12P 17/02; A61K 31/12; A61K 31/16; A61K 31/335; A61K 35/78;
A61K 35/78; C07H 13/00; C07H 15/20; C07H 15/18; C12P 17/02;**Priority Number: **Dec. 5, 1994 JP1994000301179**

Abstract:

PURPOSE: To efficiently obtain the subject compound useful as a therapeutic agent, etc., for ovarian, mammary, lung cancers, etc., by culturing a cell or a tissue of a plant capable of producing a taxane type diterpene in a culture medium containing coronatines, a microorganism capable of producing the same, its culture solution, a culture extract, etc.

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🔍 Title: **JP8205882A2: PRODUCTION OF TAXANE TYPE DITERPENE**

🔍 Country: **JP Japan**

🔍 Kind: **A2 Document Laid open to Public inspection**

🔍 Inventor: **YUKIMUNE TAKAHITO;
HARA YASUHIRO;**

🔍 Assignee: **MITSUI PETROCHEM IND LTD**
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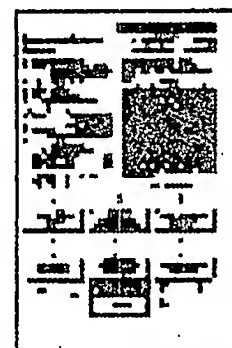
🔍 ECLA Code: **None**

🔍 Priority Number: **Dec. 5, 1994 JP1994000301179**

🔍 Designated Country: **DE FR GB IT NL**

🔍 Family:

PDF	Publication	Pub. Date	Filed	Title
	EP0727492A3	Oct. 16, 1996	Nov. 27, 1995	A method of producing a taxane-type diterpene
	EP0727492A2	Aug. 21, 1996	Nov. 27, 1995	A method of producing a taxane-type diterpene
	CA2163614AA	May 26, 1996	Nov. 23, 1995	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE
3 family members shown above - Based on data when this patent issued.				

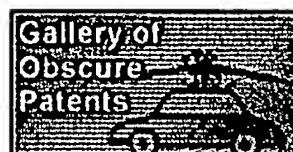


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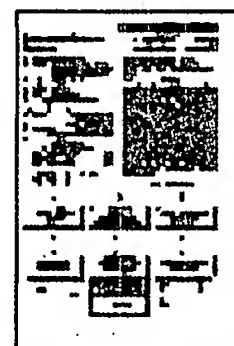
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Designated Country: **DE FR GB IT NL**

Family:

PDF	Publication	Pub. Date	Filed	Title
	US6465221	Oct. 15, 2002	March 19, 2001	Method of producing a taxane-type diterpene
	JP9065889A2	March 11, 1997	Aug. 28, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8205882A2	Aug. 13, 1996	Nov. 20, 1995	PRODUCTION OF TAXANE TYPE DITERPENE
	JP8163991A2	June 25, 1996	Dec. 15, 1994	PRODUCTION OF TAXANE-TYPE

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				DITERPENE
	<u>JP8140690A2</u>	June 4, 1996	Nov. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>EP0727492B1</u>	Jan. 31, 2001	Nov. 27, 1995	A method of producing a taxane-type diterpene
	<u>EP0727492A3</u>	Oct. 16, 1996	Nov. 27, 1995	A method of producing a taxane-type diterpene
	<u>EP0727492A2</u>	Aug. 21, 1996	Nov. 27, 1995	A method of producing a taxane-type diterpene
	<u>DE69520034T2</u>	July 19, 2001	Nov. 27, 1995	VERFAHREN ZUR HERSTELLUNG EINES DITERPENS VOM TAXANTYP
	<u>DE69520034C0</u>	March 8, 2001	Nov. 27, 1995	METHODE ZUR HERSTELLUNG EINES DITERPENS VOM TYP TAXAN
	<u>CN1132792A</u>	Oct. 9, 1996	Nov. 25, 1995	METHOD OF PRODUCING TAXANE-TYPE DITERPENE
	<u>CN1068381B</u>	July 11, 2001	Nov. 25, 1995	METHOD OF PRODUCING TAXANE-TYPE DITERPENE
	<u>CA2163614AA</u>	May 26, 1996	Nov. 23, 1995	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE
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